

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

FRANK, G. et al.

Serial No. 10/751,120

Filed: January 05, 2004

For: FREQUENCY CORRECTION FOR A MULTICARRIER
SYSTEM



Atty. Ref.: 4114-10

Group: 2611

Examiner: Flores, L.

* * * * *

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

- ☐ 1. **PTO-1449 Pursuant to 37 CFR 1.97(b)**
[within 3 months of filing or prior to 1st Office Action] *N/C*
- ☒ 2. **Statement Pursuant to 37 CFR 1.97(c)**
[before Final Office Action or Allowance] *N/C*
- ☐ 3. **Fee Payment Pursuant to 37 CFR 1.97(c)**
[before Final Office Action or Allowance] *\$180.00*
- ☐ 4. **Pursuant to 37 CFR 1.97(d)**
[before Issue Fee payment] *\$180.00*

The following are submitted in the above-identified application in compliance with 37
C.F.R. §§ 1.97 and 1.98:

- ☒ 5. A list of documents on Form PTO-1449 together with copies of each
identified document and a translation or a concise explanation of each non-
English language document is enclosed herewith.
 - ☒ a) The U.S. Patent 5,228, 062 reference cited in the EP Search Report was
previously cited in the February 1, 2007 Office Action.

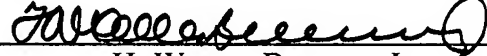
This paper is submitted in accordance with:

- ☐ 6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]

- ☒ 7. 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier]; and
- ☒ a) The required Statement made in item 9 below; or
- ☐ b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.
- ☐ 8. 37 CFR §1.97(d): [before issue fee payment]; and
- ☐ a) The fee (\$180.00) required by 37 CFR §1.17(p) is submitted herewith; and
- ☐ b) The required Statement is stated in item 9 below.
- ☒ 9. Statement under 37 CFR 1.97(e)
- ☒ a) The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information contained in this Information Disclosure Statement was first cited in a Communication mailed April 2, 2007 from the European Patent Office in the corresponding EP application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ b) No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement, after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
- ☒ 10. Please charge all deficiency fees associated with the submission of this Information Disclosure Statement and any other fees applicable to this application to Deposit Account No. 14-1140. An original and one (1) copy of this document are enclosed.

Respectfully submitted,
NIXON & VANDERHYE P.C.

May 1, 2007

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ATTY. DOCKET NO.

SERIAL NO.

4114-10

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~~2~~ APPLICANT

FRANK, G. et al.

FILING DATE

GROUP

January 05, 2004

2611

U.S. PATENT DOCUMENTS

*EXAMINER

INITIAL

DOCUMENT NUMBER

DATE _____

NAME _____

CLASS

SUBCLASS

FILING DATE

IF APPROPRIATE

5,228,062

7-1993

Bingham

FOREIGN PATENT DOCUMENTS

TRANSLATION

DOCUMENT

DATE _____

COUNTRY

CLASS

SUBCLASS

YES NO

1 049 302 A

11-2000

EP

0 817 418 A

1-1998

EP

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

EP Communication mailed April 2, 2007 in corresponding EP application no. 070032362.2

Luise et al, "Carrier Frequency Acquisition and Tracking for OFDM Systems", IEEE Transactions on Communications, IEEE Inc., New York, US, vol. 44, no. 11, 1 November 1996, pp. 1590-1598

Lee et al, "A New Symbol Timing Recovery Algorithm for OFDM Systems", IEEE Transactions on Consumer Electronics, IEEE Inc., New York, US, vol. 43, no. 3, 1 August 1997, pp. 767-774

*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)